

Keiji Hayashi

List of Publications by Year in descending order

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papers

2,723
citations

236925

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citing authors

#	ARTICLE	IF	CITATIONS
1	An Electric-field-driven Global Coronal Magnetohydrodynamics Simulation Model Using Helioseismic and Magnetic Imager Vector-magnetic-field Synoptic Map Data. <i>Astrophysical Journal</i> , 2022, 930, 60.	4.5	7
2	Coupling a Global Heliospheric Magnetohydrodynamic Model to a Magnetofrictional Model of the Low Corona. <i>Astrophysical Journal, Supplement Series</i> , 2021, 254, 1.	7.7	6
3	Comparative Study of Data-driven Solar Coronal Field Models Using a Flux Emergence Simulation as a Ground-truth Data Set. <i>Astrophysical Journal</i> , 2020, 890, 103.	4.5	26
4	The Coronal Global Evolutionary Model: Using HMI Vector Magnetogram and Doppler Data to Determine Coronal Magnetic Field Evolution. <i>Astrophysical Journal, Supplement Series</i> , 2020, 250, 28.	7.7	22
5	Parametric Study of ICME Properties Related to Space Weather Disturbances via a Series of Three-Dimensional MHD Simulations. <i>Solar Physics</i> , 2019, 294, 1.	2.5	7
6	The Role of a Tiny Brightening in a Huge Geoeffective Solar Eruption Leading to the St. Patrick's Day Storm. <i>Astrophysical Journal</i> , 2019, 874, 73.	4.5	1
7	Magnetohydrodynamic Simulations for Solar Active Regions using Time-series Data of Surface Plasma Flow and Electric Field Inferred from Helioseismic Magnetic Imager Vector Magnetic Field Measurements. <i>Astrophysical Journal Letters</i> , 2019, 871, L28.	8.3	25
8	An MHD Simulation of Solar Active Region 11158 Driven with a Time-dependent Electric Field Determined from HMI Vector Magnetic Field Measurement Data. <i>Astrophysical Journal</i> , 2018, 855, 11.	4.5	38
9	Prospective Out-of-ecliptic White-light Imaging of Coronal Mass Ejections Traveling through the Corona and Heliosphere. <i>Astrophysical Journal</i> , 2018, 852, 111.	4.5	5
10	Prospective White-light Imaging and In Situ Measurements of Quiescent Large-scale Solar-wind Streams from the <i>Parker Solar Probe</i> and <i>Solar Orbiter</i> . <i>Astrophysical Journal</i> , 2018, 868, 137.	4.5	7
11	Relation Between Coronal Hole Areas and Solar Wind Speeds Derived from Interplanetary Scintillation Measurements. <i>Solar Physics</i> , 2017, 292, 1.	2.5	30
12	Prospective Out-of-ecliptic White-light Imaging of Interplanetary Corotating Interaction Regions at Solar Maximum. <i>Astrophysical Journal</i> , 2017, 844, 76.	4.5	7
13	Vector Magnetic Field Synoptic Charts from the Helioseismic and Magnetic Imager (HMI). <i>Solar Physics</i> , 2017, 292, 1.	2.5	26
14	LONG-TERM TREND OF SOLAR CORONAL HOLE DISTRIBUTION FROM 1975 TO 2014. <i>Astrophysical Journal Letters</i> , 2016, 827, L41.	8.3	21
15	Comparison of potential field solutions for Carrington Rotation 2144. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1046-1061.	2.4	13
16	MHD-MPS analysis of relationship among solar wind density, temperature, and flow speed. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7367-7384.	2.4	10
17	Exploration of solar photospheric magnetic field data sets using the UCSD tomography. <i>Space Weather</i> , 2016, 14, 1107-1124.	3.7	10
18	STRUCTURE AND STABILITY OF MAGNETIC FIELDS IN SOLAR ACTIVE REGION 12192 BASED ON NONLINEAR FORCE-FREE FIELD MODELING. <i>Astrophysical Journal</i> , 2016, 818, 168.	4.5	33

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19	The Coronal Global Evolutionary Model: Using HMI Vector Magnetogram and Doppler Data to Model the Buildup of Free Magnetic Energy in the Solar Corona. <i>Space Weather</i> , 2015, 13, 369-373.	3.7	51
20	The Helioseismic and Magnetic Imager (HMI) Vector Magnetic Field Pipeline: Magnetohydrodynamics Simulation Module for the Global Solar Corona. <i>Solar Physics</i> , 2015, 290, 1507-1529.	2.5	29
21	MAGNETOHYDRODYNAMIC SIMULATION OF THE X2.2 SOLAR FLARE ON 2011 FEBRUARY 15. II. DYNAMICS CONNECTING THE SOLAR FLARE AND THE CORONAL MASS EJECTION. <i>Astrophysical Journal</i> , 2015, 803, 73.	4.5	56
22	MHD analysis of the velocity oscillations in the outer heliosphere. <i>Geophysical Research Letters</i> , 2014, 41, 1420-1424.	4.0	4
23	STATISTICAL ANALYSIS OF THE HORIZONTAL DIVERGENT FLOW IN EMERGING SOLAR ACTIVE REGIONS. <i>Astrophysical Journal</i> , 2014, 794, 19.	4.5	24
24	MAGNETOHYDRODYNAMIC SIMULATION OF THE X2.2 SOLAR FLARE ON 2011 FEBRUARY 15. I. COMPARISON WITH THE OBSERVATIONS. <i>Astrophysical Journal</i> , 2014, 788, 182.	4.5	73
25	MAGNETIC HELICITY IN EMERGING SOLAR ACTIVE REGIONS. <i>Astrophysical Journal</i> , 2014, 785, 13.	4.5	49
26	The Helioseismic and Magnetic Imager (HMI) Vector Magnetic Field Pipeline: Optimization of the Spectral Line Inversion Code. <i>Solar Physics</i> , 2014, 289, 3531-3547.	2.5	88
27	The Helioseismic and Magnetic Imager (HMI) Vector Magnetic Field Pipeline: Overview and Performance. <i>Solar Physics</i> , 2014, 289, 3483-3530.	2.5	437
28	The Helioseismic and Magnetic Imager (HMI) Vector Magnetic Field Pipeline: SHARPs “Space-Weather HMI Active Region Patches. <i>Solar Physics</i> , 2014, 289, 3549-3578.	2.5	471
29	Properties of High-Frequency Wave Power Halos Around Active Regions: An Analysis of Multi-height Data from HMI and AIA Onboard SDO. <i>Solar Physics</i> , 2013, 287, 107-127.	2.5	31
30	MAGNETIC STRUCTURE PRODUCING X- AND M-CLASS SOLAR FLARES IN SOLAR ACTIVE REGION 11158. <i>Astrophysical Journal</i> , 2013, 770, 79.	4.5	43
31	An MHD simulation model of time-dependent global solar corona with temporally varying solar surface magnetic field maps. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6889-6906.	2.4	27
32	Making global map of the solar surface B_r from the HMI vector magnetic field observations. <i>Journal of Physics: Conference Series</i> , 2013, 440, 012036.	0.4	3
33	The MHD simulation of the inner heliosphere over 9 years using the observation-based time-varying boundary data. <i>AIP Conference Proceedings</i> , 2012, , .	0.4	2
34	A preliminary analysis of dynamic and realistic heliosphere using interplanetary scintillation and photospheric magnetic data. <i>AIP Conference Proceedings</i> , 2012, , .	0.4	1
35	How much more can sunspots tell us about the solar dynamo?. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 25-36.	0.0	1
36	A NON-RADIAL ERUPTION IN A QUADRUPOLAR MAGNETIC CONFIGURATION WITH A CORONAL NULL. <i>Astrophysical Journal</i> , 2012, 757, 149.	4.5	60

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37	DETECTION OF THE HORIZONTAL DIVERGENT FLOW PRIOR TO THE SOLAR FLUX EMERGENCE. <i>Astrophysical Journal</i> , 2012, 751, 154.	4.5	21
38	An MHD simulation model of timeâ€dependent coâ€rotating solar wind. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	31
39	EVOLUTION OF MAGNETIC FIELD AND ENERGY IN A MAJOR ERUPTIVE ACTIVE REGION BASED ON SDO/HMI OBSERVATION. <i>Astrophysical Journal</i> , 2012, 748, 77.	4.5	315
40	Comparison of Line-of-Sight Magnetograms Taken by the Solar Dynamics Observatory/Helioseismic and Magnetic Imager and Solar and Heliospheric Observatory/Michelson Doppler Imager. <i>Solar Physics</i> , 2012, 279, 295-316.	2.5	203
41	A New Method for Polar Field Interpolation. <i>Solar Physics</i> , 2011, 270, 9-22.	2.5	72
42	Nonâ€dipolar solar wind structure observed in the cycle 23/24 minimum. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	39
43	MHD simulations of the global solar corona around the Halloween event in 2003 using the synchronic frame format of the solar photospheric magnetic field. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	16
44	Validation of Two MHD Models of the Solar Corona with Rotational Tomography. <i>Astrophysical Journal</i> , 2008, 682, 1328-1337.	4.5	15
45	IPS tomographic observations of 3D solar wind structure. <i>Astronomical and Astrophysical Transactions</i> , 2007, 26, 467-476.	0.2	22
46	MHD simulation of two successive interplanetary disturbances driven by cone-model parameters in IPS-based solar wind. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	21
47	Three-Dimensional Magnetohydrodynamic Simulation of a Global Solar Corona Using a Temperature Distribution Map Obtained from SOHO EIT Measurements. <i>Astrophysical Journal</i> , 2006, 636, L165-L168.	4.5	20
48	The 2003 Octoberâ€November Fast Halo Coronal Mass Ejections and the Largeâ€Scale Magnetic Field Structures. <i>Astrophysical Journal</i> , 2006, 640, 1135-1141.	4.5	29
49	Magnetohydrodynamic Simulations of the Solar Corona and Solar Wind Using a Boundary Treatment to Limit Solar Wind Mass Flux. <i>Astrophysical Journal, Supplement Series</i> , 2005, 161, 480-494.	7.7	80
50	Fast solar wind after the rapid acceleration. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	20
51	Polar low-speed solar wind reappeared at the solar activity maximum of cycle 23. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	9
52	MHD tomography using interplanetary scintillation measurement. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	45
53	How did the solar wind structure change around the solar maximum? From interplanetary scintillation observation. <i>Annales Geophysicae</i> , 2003, 21, 1257-1261.	1.6	20